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**European Patent Office** 

Office européen des brevets



(11) EP 0 844 781 A2

(12)

#### EUROPEAN PATENT APPLICATION

(43) Date of publication:

27.05.1998 Bulletin 1998/22

(51) Int. CI.6: HO4N 1/21

(21) Application number: 97120401.1

(22) Date of filing: 20.11.1997

(84) Designated Contracting States:

AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE
Designated Extension States:

AL LT LV MK RO SI

(30) Priority: 20.11.1996 JP 309324/96

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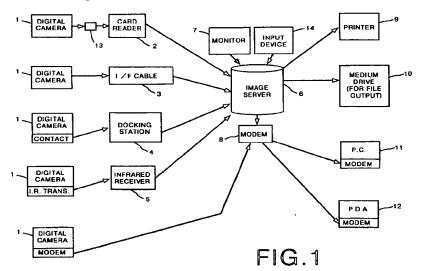
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#### (54) System for storing and utilizing picture image data recorded by digital camera

(57) Pictures recorded by a digital camera can be stored and utilized by a method convenient and appropriate for the situation. The system comprises variety of means for transferring picture image data recorded by a variety of digital cameras to an image server installed in

a DPE or the like and a variety of accessing means for enabling the picture image data stored in the image server to be accessed.



Description

#### • •

BACKGROUND OF THE INVENTION

#### Field of the Invention

The present invention relates to a picture image storing and utilizing system wherein picture image data recorded by a digital camera are stored in a large capacity disc of a server computer installed in a minilab, DPE or the like, and the stored picture image data are utilized later by printing or downloading them.

#### Description of the Related Art: --

Following the rapid spread of personal computers and personal digital assistants (PDA) recently, there has been a growing demand for utilizing a picture image recorded by a user as digital image data. As a service provided by laboratories or DPE's to meet the demand, a digital output service has been known which records image data in a photo CD or in a large capacity floppy disc and returns it to a customer when a film on which image data has been recorded is deposited for developing by the customer. Alternatively, a network photograph service wherein image data are stored in a server computer installed in a laboratory or in a DPE so that a customer can request download of the image data via the Internet or the like has been proposed.

Meanwhile, in the case of digital cameras, digital 30 image data can be obtained directly by recording, without involving a DPE. Therefore, image data recorded by digital cameras are generally stored and managed by individuals. In other words, a user of a digital camera generally records picture images by using the digital camera, and transfers the picture image data within the memory of the digital camera into a hard disc of a personal computer or the like when the memory becomes full.

Several methods have been used for transferring picture image data from a digital camera to a personal computer. In the case where the digital camera used for recording stores picture image data recorded thereby in the built-in memory thereof, a data transfer can be carried out by connecting the digital camera with a personal computer using a predetermined interface cable. As the method similar to the above, camera loading transfer means wherein a table which has a predetermined contact is connected to a personal computerusing a cable and image data are transferred from a digital camera to the personal computer via the contact by loading the digital camera on the table has been implemented. This is a so-called docking station or a camera station; and the camera station CS-36 by Canon Inc. is an example of such camera stations.

In the case where a digital camera stores picture image data recorded thereby in a removable medium such as a memory card, the picture image data carribe

transferred from the digital camera to a personal computer using a reading apparatus such as a card reader. Furthermore, in the case where a digital camera belongs to a PDA or a digital camera has a communication function, image data can be transferred to a personal computer via a modern and a public telephone line (including portable phones). Moreover, some digital cameras can transfer image data via infrared communication.

As described above, storage and utilization of picture image data recorded by a digital camera implicitly assumes that a user of a digital camera has a personal computer. Furthermore, the fact that subsequent recording cannot be carried out unless image data are transferred to a personal computer when the memory of a digital camera becomes full means that a personal computer should be carried with a digital camera.

However, the rate of ownership of portable notebook type personal computers is not high, even though personal computers have become wide spread recently. Even if a user has a notebook type personal computer, it is not realistic for the user to carry the computer with him/her during a trip only for storing image data of a digital camera. Furthermore, even if the user carries the computer with him/her, it is possible that recorded picture images cannot be transferred due to the disc space of the computer becoming full.

On the other riand, it is not necessary to carry a personal computer if a plurality of memory cards are available and can be exchanged in the same manner as films of an ordinary camera. However, memory cards are far more costly than films, and the maintenance cost of a digital camera would become very high if a piurality of memory cards were necessary.

#### SUMMARY OF THE INVENTION

Therefore, implementation of a method which can store and utilize pictures recorded by a digital camera more easily and at a lower cost has been desired. Based on consideration of the problems described above, the object of the present invention is to provide a picture image data storing and utilizing system which enables even a user who does not have a personal computer at hand or at all to use a digital camera easily and to store or utilize picture images recorded by a digital camera.

A first picture image data storing and utilizing system of the present invention comprises an image server which stores picture image data, at least one medium reading means which transfers picture image data, recorded by a digital carnera and stored in a removable medium, to the image server by reading the removable medium, and accessing means which enables the picture image data stored in the image server to be accessed and utilized.

A second picture image data storing and utilizing system of the present invention comprises, instead of the medium reading means of the first system, at least one data transferring means for transferring the picture image data, recorded by a digital camera and stored in the built-in memory of the digital camera from the digital camera to the image server.

Furthermore, a third picture image data storing and utilizing system of the present invention comprises the image server, the accessing means, the medium reading means, and the data transferring means.

In addition to each of the means above, a picture image data storing and utilizing system of the present invention may comprise file outputting means which outputs picture image data stored in the image server as a file in a predetermined recording medium, or print outputting means which outputs picture image data stored in the image server as prints.

"The image server" herein referred to means a server computer which is installed in a DPE or a laboratory or the like, and has a large capacity disc which is sufficient for storing picture image data of customers.

"The removable medium" herein referred to means a memory card or the like inserted in a digital camera.
"At least one medium reading means which transfers picture image data recorded by a digital camera and stored in a removable medium to the image server by 25 reading the removable medium" means a card reader and a cable to connect the card reader with the image server, for example. "The data transferring means" refers to a cable interface, a docking station; and a communication line as described above, for example. The 30 communication channel means not only means using wires but also means using radio such as infrared communication or a portable phone.

"Enables the picture image data stored in the image server to be accessed and utilized" means to utilize all kinds of services having been carried out at a DPE or having been proposed as a network photograph service, such as the case where the image data are browsed, searched for; downloaded, ordered for a print, output in a floppy disc or the like, and transferred to a specified apparatus.

"The accessing means" is meant to include not only communication equipment and channels which make an access from a personal computer or a PDA via a network possible, but also a monitor and inputting means such as a keyboard and a touch panel which are both connected directly to the image server. The software to be installed in the server computer, that is, the software whereby a request for a service is received, and picture image data are displayed, searched for, and transferred in response to the request, and by which an outputting apparatus such as a printer is controlled, is obviously included as part of the accessing means.

Furthermore of picture image data in the memory card of a digital camera have file names such as 0001.JPG, 0002.JPG, 0003.JPG and so on in the order of recording, it is possible that the file names are exactly the same as file names of picture image data trans-

ferred from another digital camera, when the picture image data are transferred to the image server under the original file names. Therefore, it is preferable that the picture image storing and utilizing system of the present invention further comprises file name assigning means for assigning a file name which is used for storing the image data in the image server and different from the file name of the image data before the image data are transferred to the picture image data transferred to the image server.

More specifically, means for determining a file name using the camera code to identify the digital camera used for recording the image data, the possessor code representing the possessor of the digital camera, the date code representing the date of recording, or the like, is possible. A variety of information used to determine such a file name may be input with a keyboard when the image data are transferred.

Some digital cameras add the date of recording or the like to picture image data as recording property information, and store the picture image data together with the recording property information in built-in memories or memory cards. In this case, a file name may be determined automatically by reading such recording property information, without requesting a user to input the information.

Each means described above may exist as an individual apparatus. However, it is preferable to store all means in a frame so that the frame can be placed at a counter of a DPE, at a sightseeing spot, at a convenience store or a station, for example. In this case, all means including the image server may be stored in a frame. However, since the picture image data stored in the image server are the property of a customer and to be stored securely, it is preferable that the image server is separately placed in a DPE or the like and only the inputting system such as a card reader and a cable interface is stored in one frame in order to be placed at different locations.

In this case, a temporary storage server which controls input and stores input image data temporarily is obviously stored in such a frame. Transfer means for transferring the image data temporarily stored in the temporary storage server is also included in the frame. Furthermore, not only the inputting system but also file outputting means and print outputting means may also be included in the frame.

In this case, a data transfer will be carried out between the image server and the frame having the variety. of picture image data inputting/outputting means. This transfer may be carried out from the temporary storage server to the image server via a communication channel or the like, after image data are temporarily stored in the temporary storage server which carries out input/output control of the card reader installed in the frame, for example. Alternatively, if the frame is placed outside, radio may be used for the transfer. Any known method which has been used usually

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can be adopted as the transfer method.

In other words, "at least one medium reading means which transfers picture image data recorded by a digital camera and stored in a removable medium to the image server by reading the removable medium" or "at least one data transferring means for transferring the picture image data recorded by a digital camera and stored in the built-in memory of the digital camera from the digital camera to the image server" means to include any necessary equipment and means for transferring the obtained image data to the image server, such as a card reader, a docking station, the temporary storage server, a modem, a transceiver, a cable, and a telephone line.

By comprising the data transferring means for transferring picture image data recorded by a digital camera to the image server installed in a DPE or the like, and accessing means for enabling the digital image data stored in the image server to be accessed, the picture image data storing and utilizing system of the present invention can store picture image data by using a method which is convenient and appropriate for the situation, regardless of the type of digital camera or whether or not the user carries or possesses a personal computer, and can utilize the picture image data in various methods.

If the customer-system interface portion (such as a card reader) is implemented by storing the interface portion in a frame, such as a coin-operated machine and the communication between the coin-operated 30 machine and the other portion of the system (such as the image server) is carried out by radio, for example, it is convenient for both service providers and customers, since costly equipment and important data are strictly managed at a DPE while the equipment for the interface 35 portion can be placed as an unmanned service machine in DPEs, sightseeing spots, convenience stores, stations or the like.

#### BRIEF DESCRIPTION OF THE DRAWINGS

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Figure 1 is a diagram showing an outline of a picture image data storing and utilizing system of the present invention;

Figure 2 is a diagram showing an example of a 45 coin-operated machine, and

Figure 3 is a diagram showing advantageous results of the present invention.

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#### DESCRIPTION OF THE PREFERRED EMBODIMENT 45 50

Hereinafter, a picture image data storing and utilizing system of the present invention will be explained referring to the accompanying drawings. Figure 1 is a diagram showing an outline of the picture image data storing and utilizing system of the present invention. As shown in Figure 1, the picture image data storing and utilizing system comprises a server computer 6 (and

image server) having a large capacity disc, a variety of means for storing picture image data recorded by a digital camera 1 in the image server 6, and a variety of means for utilizing the picture image data stored in the image server 6.

Storage of the picture image data in the image server 6 will be explained first. It is preserable to have a plurality of picture image data storing means so that all kinds of digital cameras, regardless of their types or manufacturers, can be dealt with by this system. More specifically, a card reader 2 is installed so that digital cameras using memory cards can be handled by this system. It is preferable to have a plurality kinds of card readers according to the standard of memory cards such as PCMCIA or SSFDC.

An interface cable 3, a docking station 4, an infrared receiver 5 and the like are also installed in this system so that digital cameras which record image data in built-in memories thereof can be dealt with. In this case, it is also preferable to have several kinds of interface cables 3 and docking stations 4 according to the standards of digital cameras, since the specifications of the interface cable 3 and the docking station 4 vary depending on the types of digital cameras.

The above means suppose that a user of this system directly faces this system's user interface. However, it is preferable for this system to comprise storing means by a communication channel so that picture image data can be stored without a user facing the system directly. For example, it is preferable for this system to comprise a modern 8 for transferring image data from the built-in memory of a digital camera to the image server 6 using a portable phone or the like, and equipment and software which are installed in the image server 6 for allowing such an access via a communication channel.

Some digital cameras have the function of compressing picture image data to save memory space when the picture image data obtained by recording using the cameras are stored in the cameras' memories. However, the processing time for recording is shorter when no compression is carried out on the image data. Therefore, a digital camera of such a typedoes not necessarily compress the image data for allrecordings, and a user of such a camera can often select whether or not the compression is carried out by switching a mode or the like. Therefore, the judgment as to whether or not the image data have been compressed is carried out upon necessity when picture image data are stored in the image server 6, and the picture image data without compression may be stored in the image server 6 after compression of the image data by the image server 6. In the case where a cable connection or a communication channel connection is used for data transfer, it is preferable to compress picture image data using a digital camera so that the time necessary for the transfer of the data becomes shorter.

To utilize the picture image data stored in the image

server 6 after searching for the image data, each image data should obviously be stored in the image server under a file name different from any other file names. If the file name of the picture image data before transferred to the image server 6, that is, the file name of the picture image data stored in the built-in memory or the like of a digital camera, is a unique file name including the name of a photographor, for example, it will not cause a problem. However-a plurality of digital cameras use serial numbers or the like as the file names, and if the transfer of the image data is carried out with the file names as they are, some file names will be exactly the same.

Therefore, when the picture image data are transferred, a file name which will not have an exact match within the image server 6 and is different from the file name in the built-in memory or the like is determined, and storage of the image data is carried out under the determined file name. This file name is automatically determined according to a predetermined rule, using information input from a keyboard or recording property. information added to the picture image data by the funcore contract to all the tion of a digital camera.

For example, the file name can be determined by a combination of information such as the type code and the product No. code of a digital camera; the type code and the product No. code of a removable medium, the possessor code of the digital camera and the removable medium, the date of recording, the date of data transfer, the number of the transfer within a day, and the frame number in the built-in memory or in the removable medium. The file name may be determined by combining the frame number and the receipt number which is determined by combining the name of the image server and the date of data transfer for example, when the 35 transferred picture image data are received by the image server 6.:-11 m. to. 200

Next, it will be explained how the picture image data stored in the image server 6 by the variety of means described above are used. As methods of using the picture image data, that is, the form of service provided to a customer, there are picture image data browsing, print ordering, file output to a predetermined medium, and data transfer by download or attachment to an electronic mail message.

One of the means for requesting the image server 6 to provide such a service comprises a monitor 7 which is directly connected to the image server, and an input device 14 such as a keyboard or a touch panel. It is preferable to make the image server accessible from a per- ... 50 sonal computer 11 or a PDA 12 via a communication channel. In this manner, a user can request the service; regardless of where he/she is, or regardless of whether or not he/she has a personal computer:

variety of accessing means or to the file output service. request, the system comprises a printer 9 and a medium drive 10. It is preferable that a plurality of

medium drives 10 are installed for a plurality of media such as a floppy disc, an MO disc, and a Zip disc.

The outline of the picture image storing and utilizing system of the present invention has been described above, referring to Figure 1. However, the variety of means shown in Figure 1 are not necessarily installed at one location. Especially, when the object of the present invention, that is, to make digital cameras more easily usable, is taken into consideration, it is preferable to implement the present invention as an easily usable embodiment such as an unmanned service or self service, as is the case of an automatic vending machine, an ATM at a bank, or a fax machine at a convenience store.

For this purpose, it is preferable that the card reader 2, the interface cable 3, the docking station 4, the infrared beam receiver 5, the medium drive 10, the printer 9, the monitor 7 and the input device (such as a touch panel) 14 in Figure 1 are all stored in one frame, and placed at a station or a convenience store or the like as a coin-operated machine shown in Figure 2. In this manner, it becomes possible, for example, for a user to set his/her digital camera on a coin-operated machine installed in a station, and store the picture image data recorded thereby during his/her trip. Even in the case where the service is provided at a DPE in the conventional manner, 24-hour service becomes possible; since this service can be provided as an unmanned service.

However, in this case, a coin-operated machine 15 only has the function of storing the input picture image data temporarily. Therefore, periodic data transfers to the image server 6 are carried out via a communication channel or the like. It is also possible for the coin-operated machine 15 to include the image server 6 with the present system serving as a stand alone machine. However, the coin-operated machine 15 may not necessarily be protected perfectly depending on its location. Therefore, it is preferable for the image server 6 which stores important picture images of customers to be placed in a DPE or the like.

In the field of cameras using a film, an unmanned film developing service using a coin-operated locker or the like has been proposed. However, since collection and delivery of films or prints should be carried out by hand, the service can not necessarily be provided in a short time and at a low cost. On the other hand, with respect to digital cameras, a wider variety of services can be provided at a low cost, since digital cameras have an advantage in terms of cost, because of their ability to transfer picture images as data via a communi-211 200 cation channel or the like.

Figure 3 shows how convenient the picture image storing and utilizing system of the present invention is. In other words, Figure 3 is a diagram to explain the advantage of the present system. Using the system of: In order to respond to a print order requested by the 1955; the present invention, a user can store picture; image data at a plurality of places during his/her trip, for example, and it is not necessary for the user to carry his/her computer with his/her digital camera. Furthermore, data :: 15

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can be stored at any place and time, if a user has a digital camera having a communication function and a portable phone.

Moreover, not only at a place where a person has gone but also in his/her daily life, picture image data can be stored at any time of the day at a DPE or a convenience store or the like. On this occasion, since a service such as a print order or a image data transfer to a friend or data output to a predetermined medium can be requested using an input panel of a coin-operated machine or the like, a person who does not possess a personal computer can exchange picture image data easily with others by data transfer or file output.

A user having a personal computer can obviously enjoy such a print output or file output service described above or a data download service by accessing the image server 6 via communication means. Furthermore, if a user has a PDA and a portable phone, the user can enjoy such services at any place.

As described above, the picture image data storing and utilizing system of the present invention can not only solve the inconvenience in digital camera data storage, but can also make optimal use of the feature of digital cameras, namely that picture images can be dealt with as digital image data from recording to data output.

#### Claims

- A picture image data storing and utilizing system comprising:
  - an image server which stores picture image data:
  - at least one medium reading means which reads picture image data recorded by a digital camera and stored in a removable medium from the removable medium and transfers the image data to the image server; and
  - accessing means which enables the picture image data stored in the image server to be accessed and utilized.
- 2. A picture image data storing and utilizing system comprising:
  - an image server which stores picture image data;
  - at least one data transferring means which transfers picture image data recorded by a digital camera and stored in the built-in memory of the digital camera from the built-in memory to the image server; and
  - accessing means which enables the picture image data stored in the image server to be accessed and utilized.
- A picture image data storing and utilizing system comprising:

- an image server which stores picture image data;
- at least one medium reading means which reads picture image data recorded by a digital camera and stored in a removable medium from the removable medium and transfers the image data to the image server;
- at least one data transferring means which transfers picture image data recorded by a digital camera and stored in the built-in memory of the digital camera from the built-in memory to the image server; and
- accessing means which enables the picture image data stored in the image server to be accessed and utilized.
- 4. A picture image data storing and utilizing system as defined in Claim 2 or 3 wherein the data transferring means is a cable connection interface and/or camera loading transferring means and/or a communication channel.
- A picture image data storing and utilizing system as defined in any one of Claims 1 to 4 which further comprises file outputting means for cutputting the picture image data stored in the image server to a predetermined recording medium.
- 6. A picture image data storing and utilizing system as defined in any one of Claims 1 to 5 which further comprises print outputting means for outputting the picture image data stored in the image server as prints.
- 7. A picture image data storing and utilizing system as defined in Claim 1 or 3 wherein the medium reading means and the accessing means are stored in a frame.
- 8. A picture image data storing and utilizing system as defined in any one of Claims 2 to 4 wherein the data transferring means and the accessing means are stored in a frame.
- 45 9. A picture image data storing and utilizing system as defined in Claim 3 wherein the medium reading means and the data transferring means are stored in a frame.
- 50 10. A picture image data storing and utilizing system as defined in Claim 9 wherein the accessing means is stored in the frame.
- 11. A picture image data storing and utilizing system as defined in any one of Claims 7 to 10 wherein file outputting means for outputting the picture image data stored in the image server to a predetermined recording medium as a file is installed in the frame.

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12. A picture image data storing and utilizing system as defined in any one of Claims 7 to 11 wherein print outputting means for outputting the picture image data stored in the image server as a print is installed in the frame.

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13. A picture image data storing and utilizing system as defined in any one of Claims 1 to 12 wherein the picture image data; are transferred to the image server via a cable and/or radio. : 3 0000

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14. A picture image data storing and utilizing system as defined in any one of Claims 1 to 13 which further comprises file name assigning means for assigning, to the picture image data transferred to the image server, a file name different from the file name before the data transfer as the file name for storage in the image server.

15. A picture image data storing and utilizing system as 20 defined in Claim 14 wherein the file name assigning means assigns a file name generated by using at least one of the camera code for identifying the digital camera used for recording, the possessor code for identifying the possessor of the digital camera, and the date code representing the date of recording to the picture image data.

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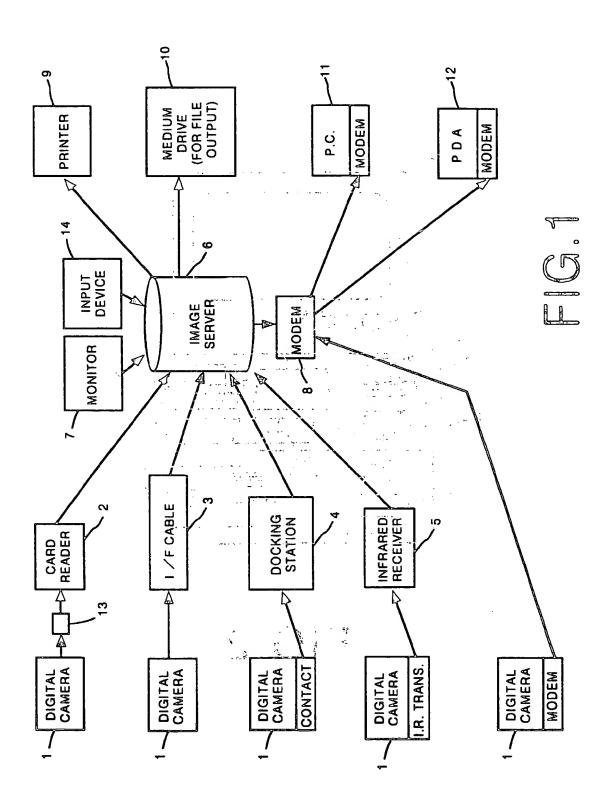
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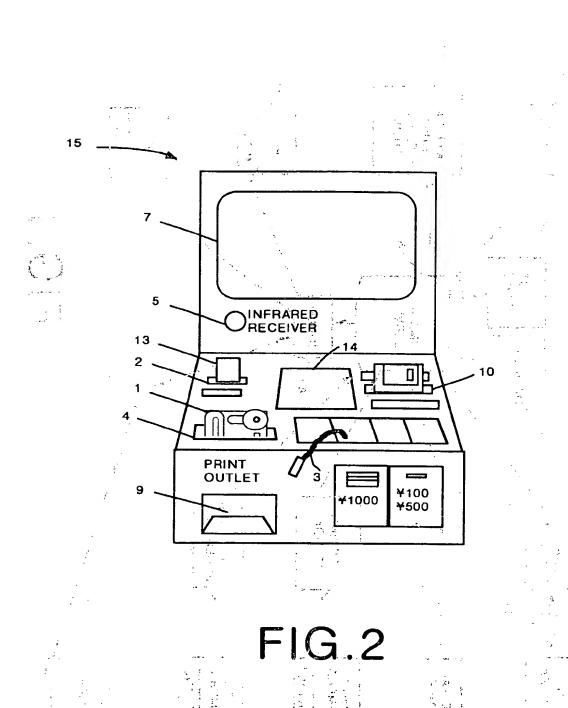
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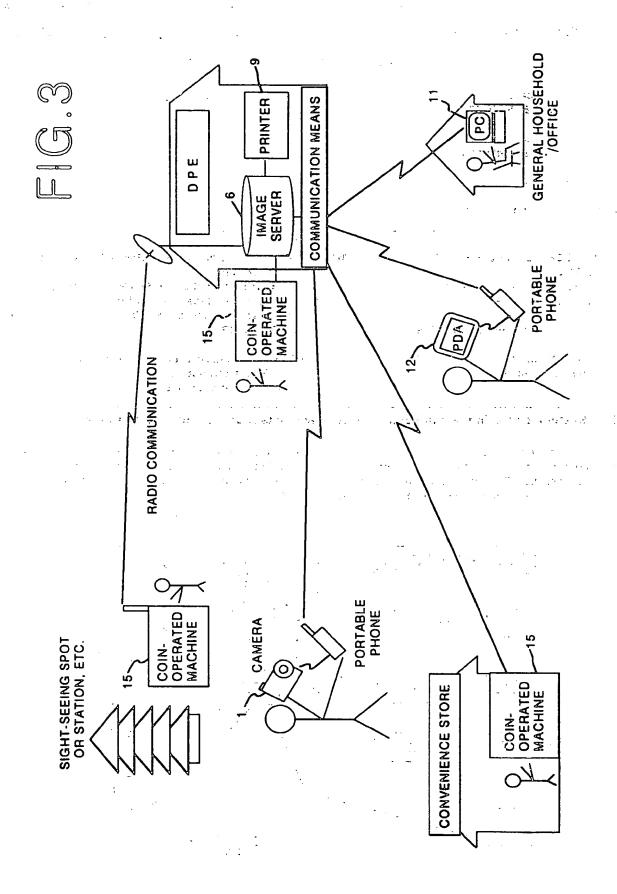
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**European Patent Office** 

Office européen des brevets



(11) EP 0 844 781 A3

(12)

#### EUROPEAN PATENT APPLICATION

(88) Date of publication A3: 09.01.2002 Bulletin 2002/02

(51) Int Ci.7: HO4N 1/21

- (43) Date of publication A2-27.05.1998 Bulletin 1998/22
- (21) Application number: 97120401.1
- (22) Date of filing: 20.11.1997
- (84) Designated Contracting States:

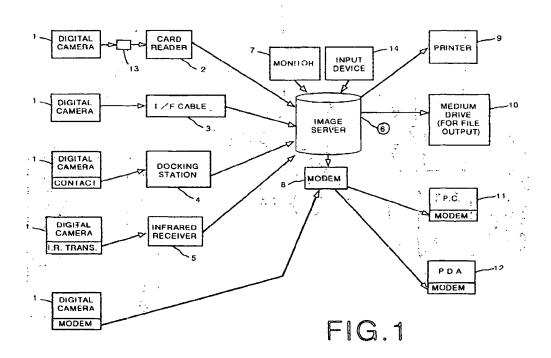
  AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC

  NL PT SE

  Designated Extension States:

  AL LT LV MK RO Si
- (30) Priority: 20:11.1996 JP 30932496
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#### EP 0 844 781 A3



#### **EUROPEAN SEARCH REPORT**

Application Number

EP 97 12 0401

Category	Citation of document with in of relevant passa		riate,	Relevant to claim		TION OF THE ON (Int.Cl.6)
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